Amendments to the Claims:

Please amend claims 1 and 5 as follows. This listing of claims will replace all prior

versions, and listings, of claims in the application.

1.   (currently amended)   A method of segmenting a three-dimensional structure

from a three-dimensional, ~~and in particular medical,~~ data set while making allowance for

user corrections, having the following steps:

a)   provision of a three-dimensional deformable model (M) whose surface is formed

by a network of mashes that connect nodes at the surface of the model,

b)   positioning of the model (M) at a point in a three-dimensional data set at which

the structure (6) to be segmented is situated,

c)   manual displacement of nodes,

d)   re-calculation of the nodes of the model (M) in weighted consideration of the

nodes that have been displaced manually.

2.   (original) A method as claimed in claim 1, wherein step d) comprises the

following steps:

determination of a candidate point for each sub-surface defined by mashes of the

model, each candidate point being situated on a normal to the sub-surface,

assignment of a weighting factor to each node that has been displaced, the weighting

factor being larger the smaller distance between the displaced node and a boundary surface

of the structure to be segmented,

re-calculation of the nodes of the model while allowing for the candidate points

determined, the displaced nodes, and the weighting factors assigned.

3.   (original) A method as claimed in claim 1, characterized in that step d) the nodes

are re-calculated by minimizing a weighted sum of external energy, internal energy and an

energy that takes into account the manually displaced nodes.

4.   (original) An image-processing arrangement for performing the method claimed

in claim 1, comprising:

a memory unit for storing a deformable model whose surface is formed by a network

of mashes that connect the nodes at the surface of the model, and for storing a three-

dimensional data set and in particular a medical data set,

an image-reproduction unit for reproducing a structure to be segmented and the

deformable model,

a calculating unit for re-calculating the nodes of the model in weighted consideration

of nodes which have been displaced manually,

a positioning unit for positioning the model at the point in the three-dimensional data

set at which the structure to be segmented is situated,

a control unit for controlling the memory unit, the image-reproduction unit, the

calculating unit and the positioning unit to perform the following steps:

a) provision of a three-dimensional deformable model (M) whose surface is formed

by a network of mashes that connect nodes at the surface of the model,

b) positioning of the model (M) at a point in a three-dimensional data set at which

the structure (6) to be segmented is situated,

c) manual displacement of nodes,

d) re-calculation of the nodes of the model (M) in weighted consideration of the

nodes that have been displaced manually.

5.   (currently amended) A computer readable medium encoded with a computer

program, executed by a computer, for a control unit for controlling a memory unit, an image-reproduction unit, a calculating unit and a positioning unit of an image-processing arrangement, ~~wherein the program is embedded in a computer-readable medium,~~ for controlling the image-processing arrangement as claimed in Claim 4 according to the following steps:

a) provision of a three-dimensional deformable model (M) whose surface is formed by a network of mashes that connect nodes at the surface of the model,

b) positioning of the model (M) at a point in a three-dimensional data set at which the structure (6) to be segmented is situated,

c) manual displacement of nodes,

d) re-calculation of the nodes of the model (M) in weighted consideration of the nodes that have been displaced manually.